

WORLD  
INTELLECTUAL  
PROPERTY  
ORGANIZATION



IP SERVICES

Home IP Services PATENTSCOPE® Patent Search



Search result: 1 of 1

## (WO/2000/034363) SOFT AND FLEXIBLE FOAMS

[Biblio. Data](#) | [Description](#) | [Claims](#) | [National Phase](#) | [Notices](#) | [Documents](#)

Latest bibliographic data on file with the International Bureau

GO

**Pub. No.:** WO/2000/034363 **International Application No.:** PCT/US1999/026970  
**Publication Date:** 15.06.2000 **International Filing Date:** 16.11.1999  
**Chapter 2 Demand Filed:** 29.08.2000

**IPC:** C08J 9/00 (2006.01), C08L 23/08 (2006.01), C08L 25/06 (2006.01), C08L 25/04 (2006.01)

**Applicants:** THE DOW CHEMICAL COMPANY [US/US]; 2030 Dow Center Midland, MI 48674 (US) (*All Except US*).  
 CHAUDHARY, Bharat, I. [IN/US]; (US) (*US Only*).  
 HOOD, Lawrence, S. [US/US]; (US) (*US Only*).  
 BARRY, Russell, P. [GB/DE]; (DE) (*US Only*).

**Inventors:** CHAUDHARY, Bharat, I.; (US).  
 HOOD, Lawrence, S.; (US).  
 BARRY, Russell, P.; (DE).

**Agent:** SPENCER, Lee; The Dow Chemical Company Intellectual Property Section 2301 N. Brazosport  
 Boulevard, B-1211 Freeport, TX 77541 (US).

**Priority Data:** 09/205,938 04.12.1998 US

**Title:** SOFT AND FLEXIBLE FOAMS

**Abstract:** A soft foam having an Asker C hardness of less than about 65, comprising: (A) from 30 to 70 percent by weight (based on the combined weight of Components A and B) of one or more alkenyl aromatic polymers and wherein at least one of said alkenyl aromatic polymers has a molecular weight ( $M_w$ ) of from 100,000 to 500,000; and (B) from 30 to 70 percent by weight (based on the combined weight of Components A and B) of one or more substantially random interpolymers having an  $I_2$  of 0.1 to 50g/10 min, an  $M_w/M_n$  of 1.5 to 20; comprising (1) from 8 to 45 mol percent of polymer units derived from: (a) at least one vinyl or vinylidene aromatic monomer, or (b) at least one hindered aliphatic or cycloaliphatic vinyl or vinylidene monomer, or (c) a combination of at least one aromatic vinyl or vinylidene monomer and at least one hindered aliphatic or cycloaliphatic vinyl or vinylidene monomer, and (2) from 55 to 92 mol percent of polymer units derived from at least one of ethylene and/or a C<sub>3</sub>-20?  $\beta$ (a)-olefin; and (3) from 0 to 20 mol percent of polymer units derived from one or more of ethylenically unsaturated polymerizable monomers other than those derived from (1) and (2); and (C) optionally, one or more nucleating agents; and (D) optionally, one or more other additives; and (E) one or more blowing agents present in a total amount of from 0.4 to 5.0 gram-moles per kilogram (based on the combined weight of Components A and B).

**Designated States:** AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW.

African Regional Intellectual Property Org. (ARIPO) (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW)  
 Eurasian Patent Organization (EAPU) (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM)  
 European Patent Office (EPO) (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE)  
 African Intellectual Property Organization (OAPI) (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

**Publication Language:** English (EN)

**Filing Language:** English (EN)